

What is claimed is:

- 1 1. A system for providing telephonic content security service in a
2 wireless network environment, comprising:
3 a plurality of wireless devices interfacing over a network providing
4 wireless telephonic services through a layered service architecture;
5 a provisioning framework provisioning content security services to the
6 wireless devices via the layered service architecture, each content security service
7 delivered through applications executing in a user layer on each wireless device,
8 comprising:
9 a network operations center supervising the provisioning of the
10 content security services to each wireless device and maintaining a master catalog
11 of the applications and configured wireless devices list; and
12 a configuration client managing a configuration of each wireless
13 device by consulting the master catalog and the configured wireless devices list
14 and downloading the applications to each wireless device; and
15 each wireless device delivering the content security services as
16 functionality provided through execution of the applications.
- 1 2. A system according to Claim 1, further comprising:
2 a status daemon periodically pushing operational data from each wireless
3 device to the network operations center.
- 1 3. A system according to Claim 2, further comprising:
2 a status daemon pulling operational data from each wireless device to the
3 network operations center on-demand.
- 1 4. A system according to Claim 2, further comprising:
2 a reporting module creating at least one of an informational report and a
3 statistics report from the operational data.
- 1 5. A system according to Claim 2, further comprising:

2 a reporting module generating an alert from the operational data upon
3 detecting a faulty wireless device.

1 6. A system according to Claim 1, wherein the applications further
2 comprise support files, further comprising:
3 a configuration client providing at least one of updates to the applications
4 and modifications to the support files to the wireless devices.

1 7. A system according to Claim 6, wherein the updates and the
2 modifications are periodically downloaded from the network operations center.

1 8. A system according to Claim 6, wherein the updates and the
2 modifications are downloaded from the network operations center on-demand.

1 9. A system according to Claim 1, further comprising:
2 an application repository maintained on a remote component server
3 storing the applications under control of the network operations center.

1 10. A system according to Claim 1, further comprising:
2 a local application repository maintained on a local component server
3 storing the applications under control of the network operations center.

1 11. A system according to Claim 1, wherein the content security
2 service comprises antivirus scanning and the application comprises an antivirus
3 scanner.

1 12. A method for providing telephonic content security service in a
2 wireless network environment, comprising:
3 interfacing to a plurality of wireless devices over a network providing
4 wireless telephonic services through a layered service architecture;
5 provisioning content security services to the wireless devices via the
6 layered service architecture, each content security service delivered through
7 applications executing in a user layer on each wireless device, comprising:

8 supervising the provisioning of the content security services to
9 each wireless device from a network operations center at which are maintained a
10 master catalog of the applications and configured wireless devices list; and
11 managing a configuration of each wireless device from a
12 configuration client by consulting the master catalog and the configured wireless
13 devices list and downloading the applications to each wireless device; and
14 delivering the content security services as functionality provided through
15 execution of the applications on each wireless device.

1 13. A method according to Claim 12, further comprising:
2 periodically pushing operational data from each wireless device to the
3 network operations center.

1 14. A method according to Claim 13, further comprising:
2 pulling operational data from each wireless device to the network
3 operations center on-demand.

1 15. A method according to Claim 13, further comprising:
2 creating at least one of an informational report and a statistics report from
3 the operational data.

1 16. A method according to Claim 13, further comprising:
2 generating an alert from the operational data upon detecting a faulty
3 wireless device.

1 17. A method according to Claim 12, wherein the applications further
2 comprise support files, further comprising:
3 providing at least one of updates to the applications and modifications to
4 the support files to the wireless devices.

1 18. A method according to Claim 17, further comprising:
2 periodically downloading the updates and the modifications from the
3 network operations center.

1 19. A method according to Claim 17, further comprising:
2 downloading the updates and the modifications from the network
3 operations center on-demand.

1 20. A method according to Claim 12, further comprising:
2 maintaining an application repository on a remote component server
3 storing the applications under control of the network operations center.

1 21. A method according to Claim 12, further comprising:
2 maintaining a local application repository on a local component server
3 storing the applications under control of the network operations center.

1 22. A method according to Claim 12, wherein the content security
2 service comprises antivirus scanning and the application comprises an antivirus
3 scanner.

1 23. A computer-readable storage medium holding code for performing
2 the method according to Claims 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, or 22.

1 24. A system for provisioning a plurality of wireless devices in a
2 closed content security service loop framework, comprising:
3 a wireless network environment comprising a plurality of wireless devices,
4 each providing wireless telephonic services;
5 a centralized database comprising catalogs of configuration information
6 for the wireless devices;
7 a configuration client determining the content security service components
8 required for content security service delivery from the configuration information
9 catalogs and providing the content security service components to each wireless
10 device for configuration and execution; and
11 a network operations center delivering content security services to each
12 wireless device through the content security service components being executed
13 thereon, and periodically receiving a status report from each wireless device

14 providing status information comprising machine-specific data and application-
15 specific information.

1 25. A system according to Claim 24, further comprising:
2 an applet executing on the configuration client broadcasting a query
3 message to one or more unconfigured wireless devices and receiving
4 configuration requests from each unconfigured wireless device.

1 26. A system according to Claim 24, further comprising:
2 a catalog server generating a catalog of out-of-date content security
3 service components on each wireless device.

1 27. A system according to Claim 24, further comprising:
2 an applet executing on the configuration client updating the out-of-date
3 content security service components on each wireless device.

1 28. A system according to Claim 24, further comprising:
2 a component server staging the content security service components.

1 29. A system according to Claim 28, further comprising:
2 a network operations center storing the staged content security service
3 components.

1 30. A system according to Claim 28, further comprising:
2 at least one of a remote component server and a local component server
3 storing the staged content security service components.

1 31. A system according to Claim 24, further comprising:
2 a Web browser executing an applet on the configuration client to manage
3 the configuration of the content security service components on each wireless
4 device.

1 32. A method for provisioning a plurality of wireless devices in a
2 closed content security service loop framework, comprising:

3 providing a wireless network environment comprising a plurality of
 4 wireless devices, each providing wireless telephonic services;
 5 maintaining a centralized database comprising catalogs of configuration
 6 information for the wireless devices;
 7 determining the content security service components required for content
 8 security service delivery from the configuration information catalogs and
 9 providing the content security service components to each wireless device for
 10 configuration and execution;
 11 delivering content security services to each wireless device through the
 12 content security service components being executed thereon; and
 13 periodically receiving a status report from each wireless device providing
 14 status information comprising machine-specific data and application-specific
 15 information.

1 33. A method according to Claim 32, further comprising:
 2 broadcasting a query message to one or more unconfigured wireless
 3 devices; and
 4 receiving configuration requests from each unconfigured wireless device.

1 34. A method according to Claim 32, further comprising:
 2 generating a catalog of out-of-date content security service components on
 3 each wireless device.

1 35. A method according to Claim 32, further comprising:
 2 updating the out-of-date content security service components on each
 3 wireless device.

1 36. A method according to Claim 32, further comprising:
 2 staging the content security service components on a component server.

1 37. A method according to Claim 36, further comprising:
 2 storing the staged content security service components on a network
 3 operations center.

1 38. A method according to Claim 36, further comprising:
2 storing the staged content security service components on at least one of a
3 remote component server and a local component server.

1 39. A method according to Claim 32, further comprising:
2 executing an applet configuration client on a Web browser to manage the
3 configuration of the content security service components on each wireless device.

1 40. A computer-readable storage medium holding code for performing
2 the method according to Claims 32, 33, 34, 35, 36, 37, 38, or 39.

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